Residence

Citizenship

Post Office Address

312 321 4299

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Case No. 10767-8





As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled by Validating Network Transformation Instructions," the specification of which:

"Method and System for \	Validating Network Trans	tormation instructions, the s	specification or mineral		
	ned hereto.				
	d on as Applicatio				
and was	s amended on (if a	pplicable).			•
amended by any amendme	ent referred to above.		identified specification, inclu		
Regulations, 6 1.56(a).			ntability as defined in Title 3		
inventor's certificate or	§ 365(a) of any PCT Int	emational application which	65(b) of any foreign applicated to designated at least one countries, any foreign application for the application on which priority	patent or in ty is claimed	ventor's l:
Prior Foreign Application(s)				Priority Clai	med
THAT A OTCIGHT REPORTED	224				
(Number)	(Country)	(Day/Month/)	(ear Filed)	Yes	No
	• •		ional application(s) listed belo	ow:	
60/251,81	1	December 7, 2000			
(Application Ser		(Filing Date)			
application designating the is not disclosed in the pr	the United States, listed be for United States or PCT	elow and, insorar as the subjection in a information which is mate	lication(s), or § 365(c) of any ect matter of each of the claim the manner provided by the firial to patentability as define a national or PCT Internation	first paragraphd in 37 CFF	oh of 35 R § 1.56
(Application Ser	ial No.)	(Filing Date)	(Status-patented, pe	ending, aban	doned)
I hereby declare that all sellef are believed to be the like so made are puni that such willful false state	statements made herein o true; and further that the ishable by fine or impriso	se statements were made wit	e and that all statements made the the knowledge that willful on 1001 of Title 18 of the Uni or any patent issued thereon. Date:	taise statem	ents and
Inventor's Signature Full name of sole or first	inventor Day	rid A. Maltz	Date.	10310	

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Inventor's Signature
Full name of second joint inventor, if any
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Inventor's Signature
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Inventor(s):

Maltz, Broch, and

Title:

"Method and System for Validating Network Transformation Instructions"

POWER OF ATTORNEY

The specification of the above-identified	d patent application:
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is attached hereto

17:20

_ as application Serial No. __ was filed on ____

I hereby revoke all previously granted powers of attorney in the above-identified patent application and appoint the following attorneys to prosecute said patent application and to transact all business in the Patent and Trademark Office connected therewith:

William A. Webb (28,277) Joseph F. Hetz (41,070) Liza K. Toth (31,065)

Please address all correspondence and telephone calls to Joseph F. Hetz in care of:

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The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Liza K. Toth as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned.

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ij

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APPENDIX I

% Creating a network topology object

```
% graphically place nodes on screen
    5
                 network topo = topo('init');
                 addlink(network topo);
                                                      % graphically connect up nodes
                 labelnames(network topo);
                                                      % graphically label nodes
                                                      % save network topo for future use
                 save network topo;
   10
                 % Top level procedure to compute paths that optimize use of network capacity
                 % inputs:
                 %
                         D = traffic demand matrix
                          (retrieved from predictions stored in TMS Statistics Repository)
   15
                 %
                         network topo = topology object defining the network topology
                 %
P = network policy information
                 %
                           (matrix of reserved capacity, which indicates links whose use
                 %
                 %
                           is administratively prohibited or which should not be
   20
                 %
                            completely allocated)
                 % outputs:
                 %
                         allocated paths() = list of paths to set up, to TMS signalling system
25
                 C = capacity(network topo);
                                                      % retrieve network topology information
                 C = C - P;
IJ
                 saved C = [];
14
                 saved SLA = [];
                 assigned_paths = [];
   30
                 round = 0;
                 [SLA, S] = create ordered sla(D);
   35
                 F = SLA(1)
                 for F = SLA',
                        round = round +1:
                        saved C\{\text{round}\} = C;
   40
                        saved SLA\{round\} = F;
                        F % display the flow
                        W = calc weights('calcweight2',F,C);
   45
                        [dist, P] = floyd(W);
```